

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1653HXP

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

- NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
- NEWS 2 "Ask CAS" for self-help around the clock
- NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
- NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
- NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
- NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
- NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
- NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
- NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
- NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced
- NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
- NEWS 12 MAR 22 PATDPASPC - New patent database available
- NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
- NEWS 14 APR 04 EPFULL enhanced with additional patent information and new fields
- NEWS 15 APR 04 EMBASE - Database reloaded and enhanced
- NEWS 16 APR 18 New CAS Information Use Policies available online
- NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
- NEWS HOURS STN Operating Hours Plus Help Desk Availability
- NEWS INTER General Internet Information
- NEWS LOGIN Welcome Banner and News Items
- NEWS PHONE Direct Dial and Telecommunication Network Access to STN
- NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 14:36:48 ON 21 APR 2005

=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, uspatful, biosis,		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 14:37:13 ON 21 APR 2005

FILE 'USPATFULL' ENTERED AT 14:37:13 ON 21 APR 2005  
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 14:37:13 ON 21 APR 2005  
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE 'EMBASE' ENTERED AT 14:37:13 ON 21 APR 2005  
COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'WPIDS' ENTERED AT 14:37:13 ON 21 APR 2005  
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE 'FSTA' ENTERED AT 14:37:13 ON 21 APR 2005  
COPYRIGHT (C) 2005 International Food Information Service

FILE 'JICST-EPLUS' ENTERED AT 14:37:13 ON 21 APR 2005  
COPYRIGHT (C) 2005 Japan Science and Technology Agency (JST)

FILE 'BIOSIS' ENTERED AT 14:37:13 ON 21 APR 2005  
Copyright (c) 2005 The Thomson Corporation

=> s plant transformation and (adverse effect)  
L1 109 PLANT TRANSFORMATION AND (ADVERSE EFFECT)

=> s plant transformation and phenotypic change  
L2 63 PLANT TRANSFORMATION AND PHENOTYPIC CHANGE

=> s (transform plant) and (nucleic acid) and (phenotype)  
2 FILES SEARCHED...  
3 FILES SEARCHED...  
L3 556 (TRANSFORM PLANT) AND (NUCLEIC ACID) AND (PHENOTYPE)

=> dup rem  
ENTER L# LIST OR (END):13  
DUPLICATE IS NOT AVAILABLE IN 'DGENE'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L3  
L4 555 DUP REM L3 (1 DUPLICATE REMOVED)

=> d l2 ti abs ibib 1-10

L2 ANSWER 1 OF 63 MEDLINE on STN  
TI Vector construction for gene overexpression as a tool to elucidate gene function.  
AB Gene overexpression as a means to determine plant gene function has been used almost since the first **plant transformation** protocols became viable. The goal of these experiments, as in classical genetic experiments, is to observe any **phenotypic change** associated with changing the expression of a gene of interest-in this case overexpression. Any phenotypic changes are interpreted, and the native gene's function is deduced based on the pathways or biochemistries that are altered in the transformants. Overexpression experiments may be particularly suitable in instances when genes are functionally redundant, when a plant species does not have good genetics, or when a knockout mutation is particularly deleterious. This chapter is intended as a general protocol for producing gene overexpression constructs, starting with genomic DNA, RNA, or an isolated clone, for use in plants that are transformable by Agrobacterium.

ACCESSION NUMBER: 2003441512 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 14501074  
TITLE: Vector construction for gene overexpression as a tool to elucidate gene function.  
AUTHOR: Lloyd Alan  
CORPORATE SOURCE: Section of Molecular Cell and Developmental Biology, Institute for Cellular and Molecular Biology, The University of Texas at Austin, Austin, TX, USA.  
SOURCE: Methods in molecular biology (Clifton, N.J.), (2003) 236 329-44.  
Journal code: 9214969. ISSN: 1064-3745.  
PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200402  
ENTRY DATE: Entered STN: 20030923  
Last Updated on STN: 20040212  
Entered Medline: 20040211

L2 ANSWER 2 OF 63 USPATFULL on STN

TI Plant transcriptional regulators of abiotic stress

AB The invention relates to plant transcription factor polypeptides, polynucleotides that encode them, homologs from a variety of plant species, and methods of using the polynucleotides and polypeptides to produce transgenic plants having advantageous properties compared to a reference plant, including improved abiotic stress tolerance. Sequence information related to these polynucleotides and polypeptides can also be used in bioinformatic search methods to identify related sequences and is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:100799 USPATFULL

TITLE: Plant transcriptional regulators of abiotic stress

INVENTOR(S): Heard, Jacqueline E., Stonington, CT, UNITED STATES  
Keddie, James S., San Mateo, CA, UNITED STATES  
Creelman, Robert A., Castro Valley, CA, UNITED STATES  
Pineda, Omaira, Vero Beach, FL, UNITED STATES  
Jiang, Cai-Zhong, Fremont, CA, UNITED STATES  
Ratcliffe, Oliver, Oakland, CA, UNITED STATES  
Kumimoto, Roderick W., San Bruno, CA, UNITED STATES  
Gutterson, Neal I., Oakland, CA, UNITED STATES  
Sherman, Bradley K., Berkeley, CA, UNITED STATES

PATENT ASSIGNEE(S): Mendel Biotechnology, Inc., Hayward, CA, UNITED STATES  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005086718	A1	20050421
APPLICATION INFO.:	US 2003-675852	A1	20030930 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-412699, filed on 10 Apr 2003, PENDING Continuation-in-part of Ser. No. US 2000-533030, filed on 22 Mar 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-171468, filed on 14 Jun 2002, ABANDONED Continuation-in-part of Ser. No. US 2000-713994, filed on 16 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-713994, filed on 16 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-112887, filed on 18 Mar 2002, PENDING Continuation-in-part of Ser. No. US 2002-286264, filed on 1 Nov 2002, PENDING Division of Ser. No. US 2000-533030, filed on 22 Mar 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-225068, filed on 9 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-171468, filed on 14 Jun 2002, ABANDONED Continuation-in-part of Ser. No. US 2001-837944, filed on 18 Apr 2001, ABANDONED Continuation-in-part of Ser. No. US 2002-225066, filed on 9 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2003-374780, filed on 25 Feb 2003, PENDING Continuation-in-part of Ser. No. US 2001-837944, filed on 18 Apr 2001, ABANDONED Continuation-in-part of Ser. No. US 2003-666642, filed on 18 Sep 2003, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-166228P	19991117 (60)
	US 1999-166228P	19991117 (60)
	US 1999-125814P	19990323 (60)
	US 2001-310847P	20010809 (60)

US 2001-336049P 20011119 (60)  
US 2001-336049P 20011119 (60)  
US 2002-434166P 20021217 (60)  
US 2002-411837P 20020918 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Mendel Biotechnology, Inc., 21375 Cabot Blvd., Hayward,  
CA, 94545, US  
NUMBER OF CLAIMS: 23  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 16 Drawing Page(s)  
LINE COUNT: 7785  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 63 USPATFULL on STN

TI Transgenic plants and methods for production thereof  
AB Genetic constructs, transformation vectors and methods are taught for  
production of transgenic plants which can be selectively removed from a  
growing site by application of a chemical agent or physiological stress.  
The invention links a target gene for the trait of commercial interest  
to a conditionally lethal gene, which can be selectively expressed to  
cause plant death. By use of the genetic constructs, transformation  
vectors and methods of the present invention, invasion of environments  
and contamination of commercial non-engineered productions by transgenic  
plants can be avoided. Methods are also taught for transformation of  
Brassica species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:70620 USPATFULL  
TITLE: Transgenic plants and methods for production thereof  
INVENTOR(S): Keller, Wilfred A., Saskatoon, CANADA  
Fabijanski, Steven F., Orleans, CANADA  
Arnison, Paul G., Orleans, CANADA  
Hammerlindl, Joseph K., Saskatoon, CANADA  
Webb, Steven R., Saskatoon, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005060768	A1	20050317
APPLICATION INFO.:	US 2004-806121	A1	20040323 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-886207, filed on 22 Jun 2001, GRANTED, Pat. No. US 6753459 Continuation of Ser. No. WO 1999-CA1223, filed on 22 Dec 1999, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-113546P	19981222 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	LORUSSO, LOUD & KELLY, 3137 Mount Vernon Avenue, Alexandria, VA, 22305	
NUMBER OF CLAIMS:	58	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	1531	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 63 USPATFULL on STN

TI Plant regulatory sequences for selective control of gene expression  
AB The current invention relates to enhancing gene expression in the roots,  
flowers, seeds, and pod wall of plants. More specifically the invention  
relates to a promoter that could be used to drive the expression of  
structural genes or other DNA sequences. We disclose the sequence of  
said promoter and give examples showing the function of said promoter.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:58661 USPATFULL  
TITLE: Plant regulatory sequences for selective control of

gene expression  
INVENTOR(S): Bhat, Deepti G., San Diego, CA, UNITED STATES  
Tennessen, Daniel J., St. Louis, MO, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005050582	A1	20050303
APPLICATION INFO.:	US 2004-840987	A1	20040507 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-468502P	20030507 (60)
	US 2003-482308P	20030625 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MONSANTO COMPANY, 800 N. LINDBERGH BLVD., ATTENTION: G.P. WUELLNER, IP PARALEGAL, (E2NA), ST. LOUIS, MO, 63167	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	1579	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 63 USPATFULL on STN  
TI Plants having modified reproductive capacity  
AB This invention relates to plants having modified reproductive capacity.  
In particular, it relates to a plant reproductive tissue specific  
promoter, the PrAG1 promoter isolated from Pinus radiata, and its use in  
promoting transcription/expression of associated sequences in plant  
reproductive tissue, including for the purpose of producing plants which  
have diminished reproductive capacity or which are sterile.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:46153 USPATFULL  
TITLE: Plants having modified reproductive capacity  
INVENTOR(S): Podila, Gopi Krishna, Houghton, MI, United States  
Liu, Jun-Jun, Houghton, MI, United States  
Karnosky, David F., Chassell, MI, United States  
PATENT ASSIGNEE(S): Carter Holt Harvey Limited, Manakau City, NEW ZEALAND  
(non-U.S. corporation)  
Rubicon IP Limited, Auckland, NEW ZEALAND (non-U.S.  
corporation)  
Michigan Technological University, Houghton, MI, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6858776	B1	20050222
	WO 2000055172		20000921
APPLICATION INFO.:	US 2002-936869		20020329 (9)
	WO 2000-NZ31		20000317
			20020329 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	NZ 1999-334715	19990317
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Fox, David T.	
LEGAL REPRESENTATIVE:	Greenlee Winner and Sullivan PC	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	1206	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 6 OF 63 USPATFULL on STN



TI DNA constructs and methods to enhance the production of commercially viable transgenic plants

AB The present invention has incorporated a non-lethal negative selectable marker gene into the vector backbone DNA of a DNA plasmid used to transform plant cells. These transgenes are designed to express a non-lethal gene product in plant cells that contain the vector backbone DNA of the DNA plasmid. The gene products of the non-lethal negative selectable marker gene are involved in plant hormone biosynthesis pathways, plant hormone substrate diversion, plant hormone degradation, plant hormone signaling or metabolic interference. The use of these DNA plasmids to transform plant cells provides for the enhanced production of commercially viable plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:301270 USPATFULL

TITLE: DNA constructs and methods to enhance the production of commercially viable transgenic plants

INVENTOR(S): Gilbertson, Larry A., Chesterfield, MO, UNITED STATES  
Krieger, Elysia K., Kirkwood, MO, UNITED STATES  
Zhang, Wanggen, Wildwood, MO, UNITED STATES  
Ye, Xudong, Madison, WI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004237142	A1	20041125
APPLICATION INFO.:	US 2004-821711	A1	20040408 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-461459P	20030409 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Gail P. Wuellner, Patent Department, E2NA, Monsanto Company, 800 N. Lindbergh Boulevard, St. Louis, MO, 63167	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Page(s)	
LINE COUNT:	1832	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 63 USPATFULL on STN

TI Antibody-mediated down-regulation of plant proteins

AB Monoclonal antibodies expressed in plant cells bind targeted transit peptides to decrease steady state levels of passenger proteins in plant organelles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:186667 USPATFULL

TITLE: Antibody-mediated down-regulation of plant proteins

INVENTOR(S): Sukhapinda, Kitisri, Zionsville, IN, United States  
Hasler, James M., Danville, IN, United States  
Petell, James K., Zionsville, IN, United States  
Strickland, James A., Goodlettsville, TN, United States  
Folkerts, Otto, Guilford, CT, United States

PATENT ASSIGNEE(S): Dow AgroSciences LLC, Indianapolis, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6767742	B1	20040727
APPLICATION INFO.:	US 1999-358321		19990721 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-93587P	19980721 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	

PRIMARY EXAMINER: Bui, Phuong T.  
ASSISTANT EXAMINER: Collins, Cynthia  
LEGAL REPRESENTATIVE: Maciak, Ronald S., Stuart, Donald R.  
NUMBER OF CLAIMS: 3  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)  
LINE COUNT: 3329  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 63 USPATFULL on STN

TI Whisker-mediated transformation of plant cell aggregates and plant tissues and regeneration of plants thereof  
AB Plant cell aggregates and plant tissues can be transformed by elongated, needle-like structures called "whiskers". The process comprises the agitation of plant cell aggregates and plant tissues of the plant to be transformed in the presence of DNA and whiskers, whereby DNA uptake and integration thereof is facilitated. The process may be applicable to other plant cell aggregates and plant tissues which have not proven easily transformable by other techniques.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:167223 USPATFULL  
TITLE: Whisker-mediated transformation of plant cell aggregates and plant tissues and regeneration of plants thereof  
INVENTOR(S): Petolino, Joseph F., Zionsville, IN, UNITED STATES  
Pareddy, Dayakar R., Carmel, IN, UNITED STATES  
Hopkins, Nicole L., Indianapolis, IN, UNITED STATES  
Armstrong, Katherine, Zionsville, IN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004128715	A1	20040701
APPLICATION INFO.:	US 2004-756980	A1	20040113 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-24070, filed on 18 Dec 2001, GRANTED, Pat. No. US 6730824 Division of Ser. No. US 1999-239706, filed on 28 Jan 1999, GRANTED, Pat. No. US 6350611		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-72944P	19980129 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DOW AGROSCIENCES LLC, 9330 ZIONSVILLE RD, INDIANAPOLIS, IN, 46268	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1724	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 9 OF 63 USPATFULL on STN

TI Methods for modifying plant biomass and abiotic stress  
AB The invention relates to plant transcription factor polypeptides, polynucleotides that encode them, homologs from a variety of plant species, and methods of using the polynucleotides and polypeptides to produce transgenic plants having advantageous properties, including increased biomass and improved abiotic stress and osmotic stress tolerance, as compared to wild-type or reference plants. Sequence information related to these polynucleotides and polypeptides can also be used in bioinformatic search methods to identify related sequences and is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:167220 USPATFULL  
TITLE: Methods for modifying plant biomass and abiotic stress  
INVENTOR(S): Jiang, Cai-Zhong, Fremont, CA, UNITED STATES  
Heard, Jacqueline E., Stonington, CT, UNITED STATES

Ratcliffe, Oliver, Oakland, CA, UNITED STATES  
Gutterson, Neal I., Oakland, CA, UNITED STATES  
Hempel, Frederick D., Albany, CA, UNITED STATES  
Kumimoto, Roderick W., San Bruno, CA, UNITED STATES  
Keddie, James S., San Mateo, CA, UNITED STATES  
Sherman, Bradley K., Berkeley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004128712	A1	20040701
APPLICATION INFO.:	US 2003-669824	A1	20030923 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-374780, filed on 25 Feb 2003, PENDING Continuation-in-part of Ser. No. US 2000-506720, filed on 17 Feb 2000, ABANDONED Continuation-in-part of Ser. No. US 2003-412699, filed on 10 Apr 2003, PENDING Continuation-in-part of Ser. No. US 2000-533392, filed on 22 Mar 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-533029, filed on 22 Mar 2000, GRANTED, Pat. No. US 6664446 Continuation-in-part of Ser. No. US 2000-532091, filed on 21 Mar 2000, GRANTED, Pat. No. US 6421114 Continuation-in-part of Ser. No. US 2000-713994, filed on 16 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US 2001-996140, filed on 26 Nov 2001, PENDING Continuation-in-part of Ser. No. US 2001-823676, filed on 30 Mar 2001, GRANTED, Pat. No. US 6717034 Continuation-in-part of Ser. No. US 2003-421138, filed on 23 Apr 2003, PENDING Continuation-in-part of Ser. No. US 2001-934455, filed on 22 Aug 2001, PENDING Continuation-in-part of Ser. No. US 2000-533030, filed on 22 Mar 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-255068, filed on 26 Sep 2002, PENDING Continuation-in-part of Ser. No. US 2002-225066, filed on 9 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-225067, filed on 9 Aug 2002, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Jeffrey M. Libby, Ph.D., Mendel Biotechnology, Inc., 21375 Cabot Blvd., Hayward, CA, 94545		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	22 Drawing Page(s)		
LINE COUNT:	7663		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L2 ANSWER 10 OF 63 USPATFULL on STN  
TI Methods and compositions for production of flavonoid and isoflavonoid nutraceuticals  
AB The invention provides method and compositions for the modulation of flavanone and/or isoflavone production in plants. The methods of the invention allow creation of plants having novel phenotypes. Increased expression of isoflavones in particular in plants may be used to increase the nutritional value of food plants for both human and animal consumption. The invention overcomes limitations of the prior art which prevented accumulation of high levels of isoflavones in plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2004:167219 USPATFULL  
TITLE: Methods and compositions for production of flavonoid and isoflavonoid nutraceuticals  
INVENTOR(S): Dixon, Richard A., Ardmore, OK, UNITED STATES  
Liu, Chang-Jun, La Jolla, CA, UNITED STATES  
Deavours, Bettina, Ardmore, OK, UNITED STATES  
PATENT ASSIGNEE(S): The Samuel Roberts Noble Foundation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004128711	A1	20040701



APPLICATION INFO.: US 2003-659755 A1 20030910 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-409447P	20020910 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FULBRIGHT & JAWORSKI L.L.P., 600 CONGRESS AVE., SUITE 2400, AUSTIN, TX, 78701	
NUMBER OF CLAIMS:	50	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	2829	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 14:36:48 ON 21 APR 2005)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 14:37:13 ON 21 APR 2005

L1 109 S PLANT TRANSFORMATION AND (ADVERSE EFFECT)  
L2 63 S PLANT TRANSFORMATION AND PHENOTYPIC CHANGE  
L3 556 S (TRANSFORM PLANT) AND (NUCLEIC ACID) AND (PHENOTYPE)  
L4 555 DUP REM L3 (1 DUPLICATE REMOVED)

=> s l1 and l4

6 FILES SEARCHED...

L5 20 L1 AND L4

=> d l5 ti abs ibib tot

L5 ANSWER 1 OF 20 USPATFULL on STN  
TI Method for increasing product yield  
AB The present invention relates to methods for increasing the yield of a compound produced by an organism. More particularly, the present invention relates to methods for increasing the total or soluble carbohydrate content or sweetness or increasing the content of an endogenous carbohydrate of a plant tissue by producing a sugar-metabolizing enzyme that catalyzes the conversion of an endogenous sugar (one that is normally produced in the plant) to an alien sugar (one that is not normally produced in the plant at the same developmental stage). The invention also relates to plants and plant parts that produce a sugar-metabolizing enzyme to yield an alien sugar, with the consequence of higher total fermentable carbohydrate content, and to fermentable carbohydrates and other products derived therefrom.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:6215 USPATFULL  
TITLE: Method for increasing product yield  
INVENTOR(S): Birch, Robert George, Jindalee, AUSTRALIA  
Wu, Luguang, Kenmore, AUSTRALIA  
PATENT ASSIGNEE(S): The University of Queensland, St. Lucia, AUSTRALIA  
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005005323	A1	20050106
APPLICATION INFO.:	US 2004-845059	A1	20040512 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	AU 2003-2003902253	20030512
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092	

NUMBER OF CLAIMS: 51  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 21 Drawing Page(s)  
LINE COUNT: 3929  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 20 USPATFULL on STN

TI Polynucleotides and polypeptides in plants

AB The invention relates to plant transcription factor polypeptides, polynucleotides that encode them, homologs from a variety of plant species, and methods of using the polynucleotides and polypeptides to produce transgenic plants having advantageous properties compared to a reference plant. Sequence information related to these polynucleotides and polypeptides can also be used in bioinformatic search methods and is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:59042 USPATFULL

TITLE: Polynucleotides and polypeptides in plants

INVENTOR(S): Zhang, James, Palo Alto, CA, UNITED STATES  
Fromm, Michael E., Lincoln, NE, UNITED STATES  
Heard, Jacqueline E., San Mateo, CA, UNITED STATES  
Riechmann, Jose Luis, Pasadena, CA, UNITED STATES  
Adam, Luc J., Hayward, CA, UNITED STATES  
Broun, Pierre E., York, UNITED KINGDOM  
Pineda, Omaira, Vero Beach, FL, UNITED STATES  
Reuber, T. Lynne, San Mateo, CA, UNITED STATES  
Keddie, James S., San Mateo, CA, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
Jiang, Cai-Zhong, Fremont, CA, UNITED STATES  
Samaha, Raymond S., Capitola, CA, UNITED STATES  
Pilgrim, Marsha L., Phoenixville, PA, UNITED STATES  
Creelman, Robert A., Castro Valley, CA, UNITED STATES  
DuBell, Arnold N., San Leandro, CA, UNITED STATES  
Ratcliffe, Oliver, Oakland, CA, UNITED STATES  
Kumimoto, Roderick, San Bruno, CA, UNITED STATES  
Sherman, Bradley K., Berkeley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004045049	A1	20040304
APPLICATION INFO.:	US 2003-412699	A1	20030410 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 2000-US9448, filed on 6 Apr 2000, PENDING Continuation-in-part of Ser. No. US 1999-394519, filed on 13 Sep 1999, ABANDONED		
	Continuation-in-part of Ser. No. US 2000-489376, filed on 21 Jan 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-506720, filed on 17 Feb 2000, ABANDONED		
	Continuation-in-part of Ser. No. US 2000-533030, filed on 22 Mar 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-533392, filed on 22 Mar 2000, ABANDONED		
	Continuation-in-part of Ser. No. US 2000-533029, filed on 22 Mar 2000, GRANTED, Pat. No. US 6664446		
	Continuation-in-part of Ser. No. US 2000-532591, filed on 22 Mar 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-533648, filed on 22 Mar 2000, ABANDONED		
	Continuation-in-part of Ser. No. US 2002-958131, filed on 30 Jan 2002, PENDING Continuation-in-part of Ser. No. US 2000-713994, filed on 16 Nov 2000, PENDING		
	Continuation-in-part of Ser. No. US 2001-819142, filed on 27 Mar 2001, ABANDONED Continuation-in-part of Ser. No. US 2001-837444, filed on 17 Apr 2001, GRANTED, Pat. No. US 6392092		
	Continuation-in-part of Ser. No. US 2002-171468, filed on 14 Jun 2002, ABANDONED		
	Continuation-in-part of Ser. No. US 2002-225066, filed on 9 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-225067, filed on 9 Aug 2002, PENDING		
	Continuation-in-part of Ser. No. US 2002-225068, filed		

on 9 Aug 2002, PENDING Continuation-in-part of Ser. No.  
US 2003-374780, filed on 25 Feb 2003, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-434166P	20021217 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MATTHEW KASER, Mendel Biotechnology, Inc., 21375 Cabot Blvd., Hayward, CA, 94545	
NUMBER OF CLAIMS:	111	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	21 Drawing Page(s)	
LINE COUNT:	18175	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L5 ANSWER 3 OF 20 USPATFULL on STN  
TI Polynucleotides and polypeptides in plants  
AB The invention relates to plant transcription factor polypeptides, polynucleotides that encode them, homologs from a variety of plant species, and methods of using the polynucleotides and polypeptides to produce transgenic plants having advantageous properties compared to a reference plant. Sequence information related to these polynucleotides and polypeptides can also be used in bioinformatic search methods and is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:26083 USPATFULL  
TITLE: Polynucleotides and polypeptides in plants  
INVENTOR(S): Sherman, Bradley K., Berkeley, CA, UNITED STATES  
Riechmann, Jose Luis, Pasadena, CA, UNITED STATES  
Jiang, Cai-Zhong, Fremont, CA, UNITED STATES  
Heard, Jacqueline E., San Mateo, CA, UNITED STATES  
Haake, Volker, Menlo Park, CA, UNITED STATES  
Creelman, Robert A., Castro Valley, CA, UNITED STATES  
Ratcliffe, Oliver, Oakland, CA, UNITED STATES  
Adam, Luc J., Hayward, CA, UNITED STATES  
Reuber, T. Lynne, San Mateo, CA, UNITED STATES  
Keddie, James, San Mateo, CA, UNITED STATES  
Broun, Pierre E., San Mateo, CA, UNITED STATES  
Pilgrim, Marsha L., Phoenixville, PA, UNITED STATES  
DuBell, Arnold N., III, San Leandro, CA, UNITED STATES  
Pineda, Omaira, Vero Beach, FL, UNITED STATES  
Yu, Guo-Liang, Berkeley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004019927	A1	20040129
APPLICATION INFO.:	US 2003-374780	A1	20030225 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-837944, filed on 18 Apr 2001, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MATTHEW KASER, Mendel Biotechnology, Inc., 21375 Cabot Blvd., Hayward, CA, 94545		
NUMBER OF CLAIMS:	112		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Page(s)		
LINE COUNT:	32531		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L5 ANSWER 4 OF 20 USPATFULL on STN  
TI Gene sequences and uses thereof in plants  
AB The invention provides polynucleotides and proteins encoded by the polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. The invention further provides methods of producing fertile transgenic plants, preferably maize, with desirable phenotypes and

progeny of any generation derived from the fertile transgenic plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:331453 USPATFULL  
TITLE: Gene sequences and uses thereof in plants  
INVENTOR(S): Edgerton, Michael D., St. Louis, MO, UNITED STATES  
Chomet, Paul S., Mystic, CT, UNITED STATES  
Laccetti, Lucille B., Groton, CT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003233670	A1	20031218
APPLICATION INFO.:	US 2002-310154	A1	20021204 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-337358P	20011204 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MONSANTO COMPANY, 800 N. LINDBERGH BLVD., ATTENTION: G.P. WUELLNER, IP PARALEGAL, (E2NA), ST. LOUIS, MO, 63167	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	14098	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 20 USPATFULL on STN

TI DNA sequences encoding polypeptides having beta-1,3-glucanase activity  
AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:273505 USPATFULL  
TITLE: DNA sequences encoding polypeptides having  
beta-1,3-glucanase activity  
INVENTOR(S): Meins, Jr., Frederick, Riehen, SWITZERLAND  
Shinshi, Hideaki, Tsuchiura, JAPAN  
Wenzler, Herman C., Plano, TX, United States  
Hofsteenge, Jan, Reinach, SWITZERLAND  
Ryals, John A., Cary, NC, United States  
Sperisen, Christoph, Birmensdorf, SWITZERLAND  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

NUMBER	KIND	DATE
-----	-----	-----



PATENT INFORMATION: US 6632981 B1 20031014  
APPLICATION INFO.: US 2001-906234 20010716 (9)  
RELATED APPLN. INFO.: Division of Ser. No. US 1999-350600, filed on 9 Jul 1999, now patented, Pat. No. US 6262342 Continuation of Ser. No. US 1997-971217, filed on 14 Nov 1997, now patented, Pat. No. US 5942662 Continuation of Ser. No. US 1995-457634, filed on 31 May 1995, now patented, Pat. No. US 5847258 Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 Continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned Continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned Continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned Continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned Continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned Continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned Continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned Continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned Continuation-in-part of Ser. No. US 165667 Continuation-in-part of Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned Continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned Continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned Continuation-in-part of Ser. No. US 425504 Continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned Continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned Continuation-in-part of Ser. No. US 1989-381443, filed on 18 Jul 1989, now abandoned Continuation-in-part of Ser. No. US 1989-353312, filed on 17 May 1989, now abandoned Continuation-in-part of Ser. No. US 1988-226303, filed on 29 Jul 1988, now abandoned Continuation-in-part of Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Fox, David T.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy, Lebel, Edouard G.  
NUMBER OF CLAIMS: 12  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 10818  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 20 USPATFULL on STN

TI DNA sequences encoding polypeptides having  $\beta$ -1,3-glucanase activity

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further



provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:112606 USPATFULL  
TITLE: DNA sequences encoding polypeptides having  
 $\beta$ -1,3-glucanase activity  
INVENTOR(S): Meins, Jr., Frederick, Riehen, Switzerland  
Shinshi, Hideaki, Tsuchiura, Japan  
Wenzler, Herman C., Plano, TX, United States  
Hofsteenge, Jan, Reinach, Switzerland  
Ryals, John A., Cary, NC, United States  
Sperisen, Christoph, Birmensdorf, Switzerland  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6262342	B1	20010717
APPLICATION INFO.:	US 1999-350600		19990709 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-971217, filed on 14 Nov 1997, now patented, Pat. No. US 5942662 Continuation of Ser. No. US 1995-457364, filed on 31 May 1995, now patented, Pat. No. US 5847258 Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 Continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned Continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned Continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned Continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned Continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US 181271 Continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned Continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned Continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned Continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US 181271 Continuation-in-part of Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned Continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned Continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned Continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned Continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned Continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned , said Ser. No. US 425504 Continuation-in-part of Ser. No. US 1989-381443, filed on 18 Jul 1989, now abandoned Continuation-in-part of Ser. No. US 1989-353312, filed on 17 May 1989, now abandoned Continuation-in-part of Ser. No. US 1988-226303, filed on 29 Jul 1988, now abandoned , said Ser. No. US 181271 Continuation-in-part of Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Meigs, J. Timothy		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	40 Drawing Figure(s); 40 Drawing Page(s)		
LINE COUNT:	8911		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 20 USPATFULL on STN  
TI Inducible herbicide resistance  
AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:99810 USPATFULL  
TITLE: Inducible herbicide resistance  
INVENTOR(S): Ryals, John A., Cary, NC, United States  
Harms, Christian T., Bad Krozingen, Germany, Federal Republic of  
Friedrich, Leslie B., Apex, NC, United States  
Beck, James J., Cary, NC, United States  
Uknes, Scott J., Apex, NC, United States  
Ward, Eric R., Durham, NC, United States  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5942662		19990824
APPLICATION INFO.:	US 1997-971217		19971114 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-457364, filed on 31 May 1995, now patented, Pat. No. US 5847258 which is a division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned Ser. No. Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned Ser. No. Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1992-848506, filed		

on 6 Mar 1992, now abandoned which is a  
continuation-in-part of Ser. No. US 1991-768122, filed  
on 27 Sep 1991, now abandoned which is a  
continuation-in-part of Ser. No. US 1990-580431, filed  
on 7 Sep 1990, now abandoned which is a  
continuation-in-part of Ser. No. US 1989-425504, filed  
on 20 Oct 1989, now abandoned which is a  
continuation-in-part of Ser. No. US 1989-368672, filed  
on 20 Jun 1989, now abandoned which is a  
continuation-in-part of Ser. No. US 1989-329018, filed  
on 24 Mar 1989, now abandoned Ser. No. Ser. No. US  
1994-181271, filed on 13 Jan 1994, now patented, Pat.  
No. US 5614395 which is a continuation-in-part of Ser.  
No. US 1993-45957, filed on 12 Apr 1993, now abandoned  
Utility

DOCUMENT TYPE:  
FILE SEGMENT:  
PRIMARY EXAMINER:  
LEGAL REPRESENTATIVE:  
NUMBER OF CLAIMS:  
EXEMPLARY CLAIM:  
NUMBER OF DRAWINGS:  
LINE COUNT:  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 20 USPATFULL on STN

TI DNA encoding plant chitinases

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:31007 USPATFULL  
TITLE: DNA encoding plant chitinases  
INVENTOR(S): Ryals, John A., Durham, NC, United States  
Ward, Eric R., Basel, Switzerland  
Payne, George B., Ann Arbor, MI, United States  
Moyer, Mary B., Cary, NC, United States  
Meins, Jr., Frederich, Reichen, Switzerland  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5880328		19990309
APPLICATION INFO.:	US 1995-455736		19950531 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 And Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned And Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned		

And Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned, said Ser. No. US 181271 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 42847 which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 848506 which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Fox, David T.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy  
NUMBER OF CLAIMS: 18  
EXEMPLARY CLAIM: 1,11,17  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 10980  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 20 USPATFULL on STN

TI Method of protecting plants from oomycete pathogens

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:1492 USPATFULL

TITLE: Method of protecting plants from oomycete pathogens

INVENTOR(S): Ryals, John A., Durham, NC, United States

Alexander, Danny C., Cary, NC, United States

Goodman, Robert M., Madison, WI, United States

Ward, Eric R., Basel, Switzerland



PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5856154		19990105
APPLICATION INFO.:	US 1995-456240		19950531 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-923197, filed on 10 Nov 1992, now abandoned which is a continuation of Ser. No. US 1993-678378, filed on 1 Apr 1993, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned And a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned And a continuation-in-part of Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned And a continuation-in-part of Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Meigs, J. Timothy		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	40 Drawing Figure(s); 40 Drawing Page(s)		
LINE COUNT:	10994		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L5 ANSWER 10 OF 20 USPATFULL on STN  
TI Process for isolating chemically regulatable DNA sequences  
AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional



chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:159700 USPATFULL  
TITLE: Process for isolating chemically regulatable DNA sequences  
INVENTOR(S): Ryals, John A., Durham, NC, United States  
Harms, Christian, Bad Krozingen, Germany, Federal Republic of  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5851766		19981222
APPLICATION INFO.:	US 1995-456262		19950531 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Campbell, Eggerton A.		
LEGAL REPRESENTATIVE:	Meigs, J. Timothy		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	40 Drawing Figure(s); 40 Drawing Page(s)		
LINE COUNT:	10987		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 20 USPATFULL on STN

TI DNA encoding  $\beta$ -1,3-glucanases

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:154555 USPATFULL  
TITLE: DNA encoding  $\beta$ -1,3-glucanases  
INVENTOR(S): Ryals, John A., Durham, NC, United States  
Moyer, Mary B., Cary, NC, United States  
Payne, George B., Ann Arbor, MI, United States  
Ward, Eric R., Basel, Switzerland  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5847258		19981208
APPLICATION INFO.:	US 1995-457364		19950531 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271,		filed on 13 Jan

1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 1995-457364, filed on 31 May 1995 which is a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 457364 which is a continuation-in-part of Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned, said Ser. No. US 457364 which is a continuation-in-part of Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Fox, David T.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy  
NUMBER OF CLAIMS: 21  
EXEMPLARY CLAIM: 1,14,20  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 10994  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 20 USPATFULL on STN

TI Chemically regulatable and anti-pathogenic DNA sequences and uses thereof

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:108519 USPATFULL  
TITLE: Chemically regulatable and anti-pathogenic DNA  
sequences and uses thereof  
INVENTOR(S): Gaffney, Thomas D., Chapel Hill, NC, United States  
Ryals, John A., Cary, NC, United States  
Friedrich, Leslie B., Apex, NC, United States  
Uknes, Scott J., Apex, NC, United States  
Ward, Eric R., Durham, NC, United States  
Kessmann, Helmut, Allschwil, Switzerland  
Vernooij, Bernardus T., Raleigh, NC, United States  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5804693		19980908
APPLICATION INFO.:	US 1995-454876		19950531 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 181271 which is a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 181271 which is a continuation-in-part of Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned, said Ser. No. US 181271 which is a continuation-in-part of Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Campell, Bruce R.		
LEGAL REPRESENTATIVE:	Meigs, J. Timothy		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	40 Drawing Figure(s); 40 Drawing Page(s)		
LINE COUNT:	10800		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 13 OF 20 USPATFULL on STN

TI Method of inducing gene transcription in a plant

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences

of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:91843 USPATFULL  
 TITLE: Method of inducing gene transcription in a plant  
 INVENTOR(S): Ryals, John A., Durham, NC, United States  
 Friedrich, Leslie B., Cary, NC, United States  
 Uknes, Scott J., Apex, NC, United States  
 Ward, Eric R., Basel, Switzerland  
 PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
	-----	-----	-----
PATENT INFORMATION:	US 5789214		19980804
APPLICATION INFO.:	US 1995-455244		19950531 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned And Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned 76 Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US 42847 which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US 848506 which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Meigs, J. Timothy		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1,8		
NUMBER OF DRAWINGS:	40 Drawing Figure(s); 40 Drawing Page(s)		



LINE COUNT: 10972  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 14 OF 20 USPATFULL on STN

TI Chemically regulatable and anti-pathogenic DNA sequences and uses thereof

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:79424 USPATFULL

TITLE: Chemically regulatable and anti-pathogenic DNA sequences and uses thereof

INVENTOR(S): Ryals, John A., Durham, NC, United States  
Alexander, Danny C., Cary, NC, United States  
Goodman, Robert M., Madison, WI, United States  
Stinson, Jeffrey R., Davie, FL, United States

PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5777200		19980707
APPLICATION INFO.:	US 1995-455416		19950531 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 And a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned And Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned , said Ser. No. US -181271 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US -42847 which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US -165667 , said Ser. No. US -848506 which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed		



on 7 Sep 1990 which is a continuation-in-part of Ser.  
No. US -425504 which is a continuation-in-part of  
Ser. No. US 1989-368672, filed on 20 Jun 1989 which is  
a continuation-in-part of Ser. No. US 1989-329018,  
filed on 24 Mar 1989

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Campbell, Eggerton A.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy  
NUMBER OF CLAIMS: 10  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 9630  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 15 OF 20 USPATFULL on STN

TI DNA sequences encoding SAR8.2 proteins and uses thereof

AB. The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:69272 USPATFULL  
TITLE: DNA sequences encoding SAR8.2 proteins and uses thereof  
INVENTOR(S): Ryals, John A., Durham, NC, United States  
Alexander, Danny C., Cary, NC, United States  
Goodman, Robert M., Madison, WI, United States  
Stinson, Jeffrey R., Davie, FL, United States  
PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5767369		19980616
APPLICATION INFO.:	US 1995-456265		19950531 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 And a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned And Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned, said Ser. No. US -181271 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a		

continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US -42847 which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US -848506 which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Fox, David T.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy  
NUMBER OF CLAIMS: 16  
EXEMPLARY CLAIM: 1,4  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 9667  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 16 OF 20 USPATFULL on STN

TI Chemically inducible promoter of a plant PR-1 gene

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 97:107324 USPATFULL  
TITLE: Chemically inducible promoter of a plant PR-1 gene  
INVENTOR(S): Ryals, John A., Durham, NC, United States  
Friedrich, Leslie B., Cary, NC, United States  
Uknes, Scott J., Apex, NC, United States  
Ward, Eric R., Basel, Switzerland  
PATENT ASSIGNEE(S): Novartis Corporation, Summit, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5689044		19971118
APPLICATION INFO.:	US 1995-449043		19950524 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a		

continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 1995-449043, filed on 24 May 1995 which is a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US 1995-449043, filed on 24 May 1995 which is a continuation-in-part of Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-568431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned, said Ser. No. US 1995-449043, filed on 24 May 1995 which is a continuation-in-part of Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Fox, David T.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy  
NUMBER OF CLAIMS: 7  
EXEMPLARY CLAIM: 1,3  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 9180  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 17 OF 20 USPATFULL on STN

TI Chemically inducible promoter of a cucumber chitinase/lysozyme gene  
AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 97:68579 USPATFULL

TITLE: Chemically inducible promoter of a cucumber  
chitinase/lysozyme gene

INVENTOR(S): Ryals, John A., Cary, NC, United States  
Beck, James J., Apex, NC, United States  
Friedrich, Leslie B., Cary, NC, United States

PATENT ASSIGNEE(S): Novartis Finance Corporation, New York, NY, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5654414		19970805
APPLICATION INFO.:	US 1995-444803		19950519 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US 1995-444803, filed on 19 May 1995 which is a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned , said Ser. No. US 1995-444803, filed on 19 May 1995 which is a continuation-in-part of Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned , said Ser. No. US 1995-444803, filed on 19 May 1995 which is a continuation-in-part of Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Meigs, J. Timothy		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	40 Drawing Figure(s); 40 Drawing Page(s)		
LINE COUNT:	9681		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 18 OF 20 USPATFULL on STN

TI Chemically regulatable and anti-pathogenic DNA sequences and uses  
thereof

AB The present invention provides chemically regulatable DNA sequences  
capable of regulating transcription of an associated DNA sequence in  
plants or plant tissues, chimeric constructions containing such  
sequences, vectors containing such sequences and chimeric constructions,  
and transgenic plants and plant tissues containing these chimeric  
constructions. In one aspect, the chemically regulatable DNA sequences



of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 97:64102 USPATFULL

TITLE: Chemically regulatable and anti-pathogenic DNA sequences and uses thereof

INVENTOR(S): Ryals, John A., Durham, NC, United States  
 Alexander, Danny C., Cary, NC, United States  
 Beck, James J., Cary, NC, United States  
 Duesing, John H., Riehen, Switzerland  
 Goodman, Robert M., Madison, WI, United States  
 Friedrich, Leslie B., Cary, NC, United States  
 Harms, Christian, Bad Krozingen, Germany, Federal Republic of  
 Meins, Jr., Frederich, Reichen, Switzerland  
 Montoya, deceased, Alice, late of Lake Stevens, WA, United States by Terry Montoya, legal representative  
 Moyer, Mary B., Cary, NC, United States  
 Neuhaus, Jean-Marc, Basel, Switzerland  
 Payne, George B., Ann Arbor, MI, United States  
 Sperisen, Christoph, Dulliken, Switzerland  
 Stinson, Jeffrey R., Davie, FL, United States  
 Uknes, Scott J., Apex, NC, United States  
 Ward, Eric R., Basel, Switzerland  
 Williams, Shericca C., Cary, NC, United States  
 PATENT ASSIGNEE(S): Novartis Corporation, Tarrytown, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5650505		19970722
APPLICATION INFO.:	US 1995-449315		19950524 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-181271, filed on 13 Jan 1994, now patented, Pat. No. US 5614395 And a continuation-in-part of Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned And Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned, said Ser. No. US -181271 which is a continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US -42847 which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said		



Ser. No. US -848506 which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Moody, Patricia R.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy  
NUMBER OF CLAIMS: 11  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 9648  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 19 OF 20 USPATFULL on STN

TI Chemically regulatable and anti-pathogenic DNA sequences and uses thereof

AB The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. In one aspect, the chemically regulatable DNA sequences of the invention are derived from the 5' region of genes encoding pathogenesis-related (PR) proteins. The present invention also provides anti-pathogenic sequences derived from novel cDNAs coding for PR proteins which can be genetically engineered and transformed into plants to confer enhanced resistance to disease. Also provided is a method for the exogenous regulation of gene expression in plants, which comprises obtaining a plant incapable of regulating at least one gene or gene family, or; at least one heterologous gene, due to the deactivation of at least one endogenous signal transduction cascade which regulates the gene in the plant, and applying a chemical regulator to the plant at a time when expression of the gene is desired. A novel signal peptide sequence and corresponding DNA coding sequence is also provided. Further provided are assays for the identification and isolation of additional chemically regulatable DNA sequences and cDNAs encoding PR proteins and assays for identifying chemicals capable of exogenously regulating the chemically regulatable DNA sequences of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 97:24912 USPATFULL

TITLE: Chemically regulatable and anti-pathogenic DNA sequences and uses thereof

INVENTOR(S): Ryals, John A., Durham, NC, United States  
Alexander, Danny C., Cary, NC, United States  
Beck, James J., Cary, NC, United States  
Duesing, John H., Riehen, Switzerland  
Goodman, Robert M., Madison, WI, United States  
Friedrich, Leslie B., Cary, NC, United States  
Harms, Christian, Bad Krozingen, Germany, Federal Republic of  
Meins, Jr., Frederich, Reichen, Switzerland  
Montoya, deceased, Alice, late of Lake Stevens, WA, United States by Terry Montoya, legal representative  
Moyer, Mary B., Cary, NC, United States  
Neuhaus, Jean-Marc, Basel, Switzerland  
Payne, George B., Ann Arbor, MI, United States  
Sperisen, Christoph, Dulliken, Switzerland  
Stinson, Jeffrey R., Davie, FL, United States  
Uknes, Scott J., Apex, NC, United States  
Ward, Eric R., Basel, Switzerland

PATENT ASSIGNEE(S): Williams, Shericca C., Cary, NC, United States  
Ciba-Geigy Corporation, Tarrytown, NY, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5614395		19970325
APPLICATION INFO.:	US 1994-181271		19940113 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-93301, filed on 16 Jul 1993, now abandoned Ser. No. US 1993-42847, filed on 6 Apr 1993, now abandoned Ser. No. US 1993-45957, filed on 12 Apr 1993, now abandoned And Ser. No. US 1992-848506, filed on 6 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-768122, filed on 27 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-580431, filed on 7 Sep 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-368672, filed on 20 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 1989-329018, filed on 24 Mar 1989, now abandoned, said Ser. No. US -93301 which is a continuation of Ser. No. US 1992-973197, filed on 6 Nov 1992, now abandoned which is a continuation of Ser. No. US 1991-678378, filed on 1 Apr 1991, now abandoned which is a continuation of Ser. No. US 1989-305566, filed on 6 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned, said Ser. No. US -42847 which is a continuation of Ser. No. US 1990-632441, filed on 21 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-425504, filed on 20 Oct 1989, now abandoned And Ser. No. US 1988-165667, filed on 8 Mar 1988, now abandoned		

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Moody, Patricia R.  
LEGAL REPRESENTATIVE: Meigs, J. Timothy, Walsh, Andrea C.  
NUMBER OF CLAIMS: 13  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 40 Drawing Page(s)  
LINE COUNT: 9793  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 20 OF 20 USPATFULL on STN  
TI Processes for producing polyhydroxybutyrate and related polyhydroxyalkanoates in the plastids of higher plants  
AB The present invention relates to a process for producing poly-D-(-)-3-hydroxybutyric acid (PHB) and related polyhydroxyalkanoates (PHA) in the plastids of plants. The production of PHB is accomplished by genetically transforming plants with modified genes from microorganisms. The genes encode the enzymes required to synthesize PHB from acetyl-CoA or related metabolites and are fused with additional plant sequences for targeting the enzymes to the plastid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 97:20412 USPATFULL  
TITLE: Processes for producing polyhydroxybutyrate and related polyhydroxyalkanoates in the plastids of higher plants  
INVENTOR(S): Somerville, Christopher R., Portola Valley, CA, United States  
Nawrath, Christiane, Palo Alto, CA, United States  
Poirier, Yves, Palo Alto, CA, United States  
PATENT ASSIGNEE(S): Board of Trustees operating Michigan State University, East Lansing, MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5610041		19970311
APPLICATION INFO.:	US 1994-254357		19940606 (8)
DISCLAIMER DATE:	20120607		
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-108193, filed on 17 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1991-732243, filed on 19 Jul 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Rories, Charles C. P.		
LEGAL REPRESENTATIVE:	McLeod, Ian C.		
NUMBER OF CLAIMS:	36		
EXEMPLARY CLAIM:	36		
NUMBER OF DRAWINGS:	37 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	2233		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			